

Water

Springs

There is no mains water supply on site, so water is provided by several springs. There is one consistent spring (Spring 1) which has evidence of being used as a well previously. Water from this spring and one other spring (Spring 2) has been tested and also the water from the well next to the house (Well 1). The results are attached to this .

The water tests (see results below) and subsequent consultation showed that the spring water was adequately free from chemical and heavy metal pollutants but had bacterial content above safe drinking levels. Therefore a triple filtration system with a UV element has been installed inline with recommendations.

Rainwater Harvesting

Rainwater is harvested from roofs and used as hand washing water and to water crops. Further passive rainwater harvesting systems will be created for additional irrigation.

Usage

YCCF aim to keep water use at sustainable levels. Water use is kept to a minimum by:

- Using water-free toilets. Flushing toilets constitute a large portion of water usage in an average household.
- Cooking and washing up communally which reduces our water consumption.



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Client: Pozzani Pure Water plc
Warwick Road
Fairfield Industrial Estate
Louth
Lincs
LN11 0YB
United Kingdom

Certificate No.: 1058273
Job Ref: 13D05684
Number Of Samples: 1
Date Received: 10/04/2013
Date Reported: 23/04/2013

CERTIFICATE OF ANALYSIS

Page 1 of 2

LSN: 67/44113
Sample Description.: 60094S1
Sample Taken: 08/04/2013
Testing Commenced: 10/04/2013

Cust. Details: Sara Tommerup
Site Details: Field Spring, Cherry Tree
Cottage, Corner Road,
Pillowell, GL15 4QU
Acceptable

Sample Condition:

Test Description	Method	Result	Unit	SPEC	Grade
‡ Total Arsenic	‡	0.66	µg/l As	10µg/l	G
‡ Total Copper	‡	2.38	µg/l Cu	2000µg/l	G
‡ Total Iron	‡	13.74	µg/l Fe	200µg/l	G
‡ Total Lead	‡	0.11	µg/l Pb	25µg/l	G
‡ Total Manganese	‡	2.93	µg/l Mn	50µg/l	G
‡ Total Zinc	‡	4.47	µg/l Zn	3000µg/l(A)	G
Total Aerobic Colony Count 37°C 2 DaAM071		56	cfu per ml	20	R
Total Aerobic Colony Count 22°C 3 DaAM071		368	cfu per ml	100	R
Total Coliforms	AM149	45	MPN/100 ml	1	R
Escherichia coli	AM149	19	MPN/100 ml	1	R
‡ Total Chloride	‡	10.9	mg/l Cl	250mg/l	G
‡ Total Sulphate	‡	13.8	mg/l SO4	250mg/l	G
‡ Fluoride	‡	<0.2	mg/l F	1.5mg/l	G
‡ Nitrate	‡	26.4	mg/l NO3	49.6mg/l	G
‡ Nitrite	‡	<0.1	mg/l NO2	0.5mg/l	G
† Ammonia	†	<0.2	mg/l N	0.39mg/l	G
† pH	†	6.92		6.5-9.5	G
† Electrical Conductivity	†	199	µS/cm	2500µS/cm	G
† Total Hardness	†	91	mg/l CaCO3	No Limit	
† Turbidity	†	<0.1	NTU	1NTU	G

Results presented above are a measure of the quality of the water sample received (as is) by Exova. These results may not be a true measure of the quality of the sample at point of origin if prescribed sampling and transportation protocols have not been adhered to.
Legionella results are a theoretical value calculated from 500ml sample (excluding uncertainty).

Signed for and on behalf of Exova (UK) Ltd.

V. J. O'Hara

Vicki O'Hara

Analyst Chemistry

Christopher Potter

Christopher Potter

BSc (Hons)
Microbiologist



0730



Testing Laboratory – Exova Hillington, 70 Montrose Avenue, Hillington, Glasgow, G52 4LA

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LN11 0YB
United Kingdom

Certificate No.: 1058273
Job Ref: 13D05684
Number Of Samples: 1
Date Received: 10/04/2013
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CERTIFICATE OF ANALYSIS

Page 2 of 2

‡	Odour (Qualitative)	‡	burnt/sewerage	-	
‡	Total Calcium	‡	19.2 mg/l Ca	500mg/l	G
‡	Total Magnesium	‡	10.4 mg/l Mg	-	
‡	Total Sodium	‡	8.2 mg/l Na	200mg/l	G

E = Estimated Count.

A) - aesthetic

Chemistry analysis carried out at accredited laboratory 0568 (Exova Hillington) except for odour assessment, which was carried out at Exova Birmingham). MAC limits / specifications provided by the client.

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Client: Pozzani Pure Water plc
Warwick Road
Fairfield Industrial Estate
Louth
Lincs
LN11 0YB
United Kingdom

Certificate No.: 1058244
Job Ref: 13D05682
Number Of Samples: 1
Date Received: 10/04/2013
Date Reported: 22/04/2013

CERTIFICATE OF ANALYSIS

Page 1 of 2

LSN: 67/44110
Sample Description.: 60094S2
Sample Taken: 08/04/2013
Testing Commenced: 10/04/2013

Cust. Details: Sara Tommerup
Site Details: East Spring, Cherry Tree
Cottage, Corner Road,
Pillowell, GL15 4QU
Acceptable

Sample Condition:

Test Description	Method	Result	Unit	SPEC	Grade
‡ Total Arsenic	‡	0.75	µg/l As	10µg/l	G
‡ Total Copper	‡	1.88	µg/l Cu	2000µg/l	G
‡ Total Iron	‡	18.04	µg/l Fe	200µg/l	G
‡ Total Lead	‡	<0.10	µg/l Pb	25µg/l	G
‡ Total Manganese	‡	5.72	µg/l Mn	50µg/l	G
‡ Total Zinc	‡	12.36	µg/l Zn	3000µg/l(A)	G
Total Aerobic Colony Count 37°C 2 DaAM071		13	cfu per ml	20	G
Total Aerobic Colony Count 22°C 3 DaAM071		29	cfu per ml	100	G
Total Coliforms	AM149	1	MPN/100 ml	1	R
Escherichia coli	AM149	1	MPN/100 ml	1	R
‡ Total Chloride	‡	28.6	mg/l Cl	250mg/l	G
‡ Total Sulphate	‡	51.2	mg/l SO4	250mg/l	G
‡ Fluoride	‡	<0.2	mg/l F	1.5mg/l	G
‡ Nitrate	‡	35.8	mg/l NO3	49.6mg/l	G
‡ Nitrite	‡	<0.1	mg/l NO2	0.5mg/l	G
† Ammonia	†	<0.2	mg/l N	0.39mg/l	G
† pH	†	6.52		6.5-9.5	G
† Electrical Conductivity	†	308	µS/cm	2500µS/cm	G
† Total Hardness	†	121	mg/l CaCO3	No Limit	
† Turbidity	†	<0.1	NTU	1NTU	G

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Legionella results are a theoretical value calculated from 500ml sample (excluding uncertainty).

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Louth
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LN11 0YB
United Kingdom

Certificate No.: 1058244
Job Ref: 13D05682
Number Of Samples: 1
Date Received: 10/04/2013
Date Reported: 22/04/2013

CERTIFICATE OF ANALYSIS

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‡	Odour (Qualitative)	‡	None Detected	-	
‡	Total Calcium	‡	25.0	mg/l Ca	500mg/l G
‡	Total Magnesium	‡	14.3	mg/l Mg	-
‡	Total Sodium	‡	16.2	mg/l Na	200mg/l G

E = Estimated Count.

A) - aesthetic

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LN11 0YB
United Kingdom

Certificate No.: 1058237
Job Ref: 13D05679
Number Of Samples: 1
Date Received: 10/04/2013
Date Reported: 22/04/2013

CERTIFICATE OF ANALYSIS

Page 1 of 2

LSN: 67/44088
Sample Description.: 60094S3
Sample Taken: 08/04/2013
Testing Commenced: 10/04/2013

Cust. Details: Sara Tommerup
Site Details: West Spring, Cherry Tree
Cottage, Corner Road,
Pillowell, GL15 4QU
Acceptable

Sample Condition:

Test Description	Method	Result	Unit	SPEC	Grade
‡ Total Arsenic	‡	0.58	µg/l As	10µg/l	G
‡ Total Copper	‡	1.74	µg/l Cu	2000µg/l	G
‡ Total Iron	‡	24.38	µg/l Fe	200µg/l	G
‡ Total Lead	‡	<0.10	µg/l Pb	25µg/l	G
‡ Total Manganese	‡	1.88	µg/l Mn	50µg/l	G
‡ Total Zinc	‡	1.59	µg/l Zn	3000µg/l(A)	G
Total Aerobic Colony Count 37°C 2 DaAM071		320	cfu per ml	20	R
Total Aerobic Colony Count 22°C 3 DaAM071		32	cfu per ml	100	G
Total Coliforms	AM149	1	MPN/100 ml	1	R
Escherichia coli	AM149	None Detected	MPN/100 ml	1	G
‡ Total Chloride	‡	9.6	mg/l Cl	250mg/l	G
‡ Total Sulphate	‡	15.4	mg/l SO4	250mg/l	G
‡ Fluoride	‡	<0.2	mg/l F	1.5mg/l	G
‡ Nitrate	‡	39.3	mg/l NO3	49.6mg/l	G
‡ Nitrite	‡	<0.1	mg/l NO2	0.5mg/l	G
† Ammonia	†	<0.2	mg/l N	0.39mg/l	G
† pH	†	6.65		6.5-9.5	G
† Electrical Conductivity	†	200	µS/cm	2500µS/cm	G
† Total Hardness	†	89	mg/l CaCO3	No Limit	
† Turbidity	†	0.4	NTU	1NTU	G

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United Kingdom

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Job Ref: 13D05679
Number Of Samples: 1
Date Received: 10/04/2013
Date Reported: 22/04/2013

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Page 2 of 2

±	Odour (Qualitative)	±	None Detected	-	
±	Total Calcium	±	18.0	mg/l Ca	500mg/l G
±	Total Magnesium	±	10.8	mg/l Mg	-
±	Total Sodium	±	6.0	mg/l Na	200mg/l G

E = Estimated Count.

A) - aesthetic

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